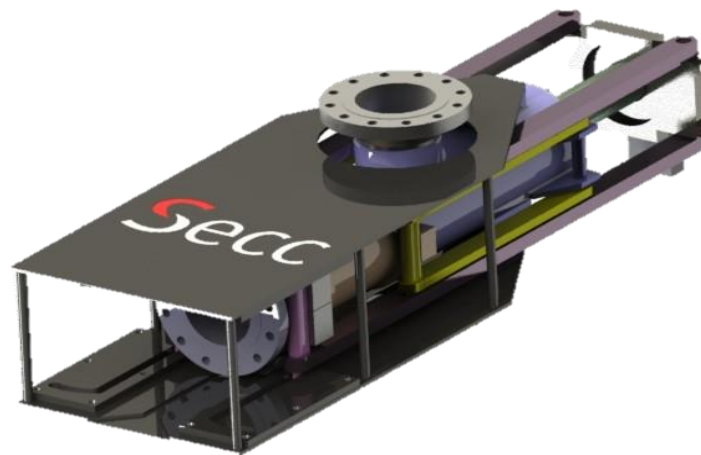


Secc



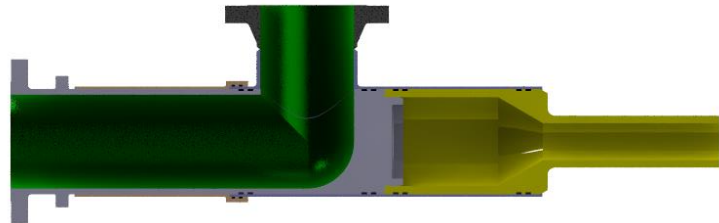
HIGHFLOW
EMERGENCY RELEASE COUPLING
(HF-ERC)

Technical Datasheet

HIGHFLOW Emergency Release Coupling (HF-ERC) Technical Datasheet

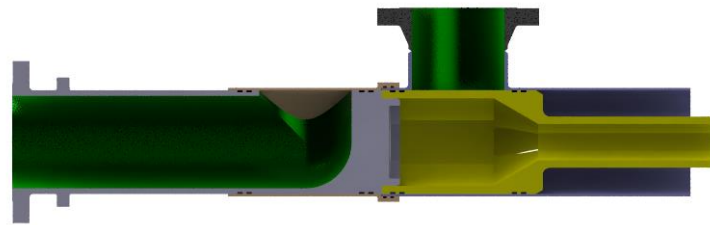
Connected

In the connected state the full bore allows fluid to flow without obstruction across a 90 or 45° Elbow. The pressure balanced design removes any separation forces from hydrostatic pressure: acting on the retention system



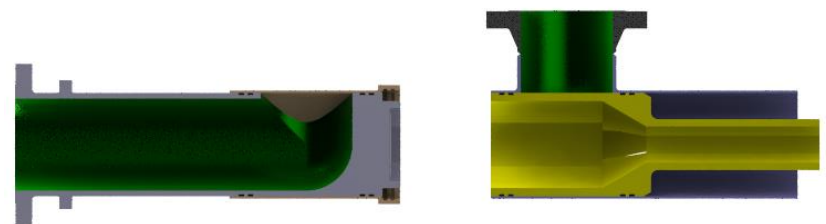
Isolated

During transition the inner piston isolates the receptacle bore (Fixed half). Simultaneously, the Sleeve isolates the Probe (Hose End). Both closures are pressure balanced and generate no thrust during activation.



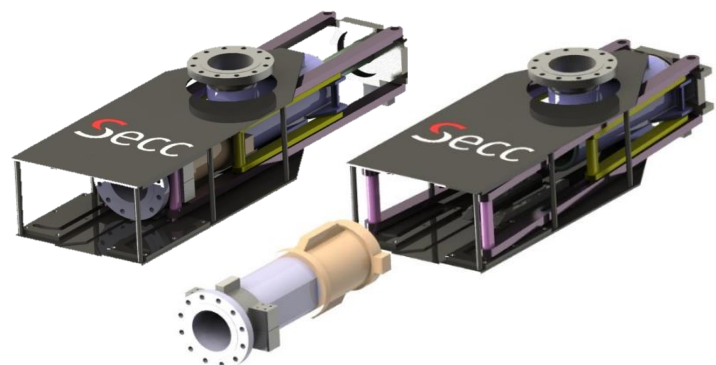
Released

Once released both halves remain zero leak. The Sleeve protects any sealing surfaces and prevents damage during ejections. The Sleeve closure is resilient against vacuum and wave actions.



Resetting

Resetting can be done without tooling simply by winching the Probe back into the Receptacle. The retention system will automatically secure the probe and open the valve closures.



HIGHFLOW Emergency Release Coupling (HF-ERC) Technical Datasheet

DESIGN BASICS			
Coupling Type	HF-ERC		
Coupling Size	2", 4", 6", 8", 10" & 12"		
Flange Rating	150 & 300LB	Design pressure	19.5 BAR
Max Operating Depth	Subject to Size	Operating Temperature	-50°C to +80°C
Flow Path	HIGHFLOW full bore		
Design Code	ASME B16.5, OCIMF		
Valve Closure	Dual Closure (Single – Hose end only available)		
Material Classification	ASTM Group 2-2.3 or 2-1.1 Materials		
Quality Assurance	ISO 9001:2015 and full traceability		
Certification Level	EN 10204 3.1 (EN 10204 3.2 available on request)		
Operational	Passive (once disarmed)		
Breakaway Control	Pressure balanced seals ensures no separation forces		
Break Load	N/A (Pressure Balanced)		
Orientation	Horizontal, Vertical or Reel		
Installation	Fixed presentation flange		
Alignment Method	Guide Funnels/ Plates		
Position indication	Yes		
Design Life	25 years (metallic components)		
Additional Options	Buoyancy Floats, Hydraulic override, Ex-Load monitoring, Ex-Proximity switches,		
PERFORMANCE			
Max. Bending Moment	Size specific	Maximum Torque	Size specific
BASIC WEIGHT AND DIMENSIONS			
Connected Dimensions	See GA	Disconnected Dimensions	See GA
Weight in Air	See GA		
CONNECTION DETAILS			
Inlet Connection	ASME B16.5 150lb or 300lb (others available)		
MATERIALS			
Receptacle	A105 OR 316SS	Fasteners	B7-2H or A4 Stainless Steel
Stab	A105 OR 316SS	Non-Pressure Bearing	316SS
Elastomeric Seals	Nitrile/ Viton	Tension Pin:	N/A
Polymer Seals	PTFE		
COMPLIANCE			
Pressure Test	ASME B16.5	Impact Testing	ASTM A370
Qualification Test	OCIMF Compliant	Hardness Testing	ASTM E10 / ASTM E18
Ultrasonic	As required	Magnetic Particle	As required
Dye Penetrant	As required	Radiography	As required
Corrosion Testing	ASTM G48 Method A		
WITNESS REQUIREMENTS			
Customer Witness	Available on request	Third Party Witness	Available at additional cost
PAINTING REQUIREMENTS			
Painting Specification	None	Colour	Self-colour, ENP, Paint
NOTES / ADDITIONAL REQUIREMENTS			
<p><i>Small bore high pressure Up to 15ksi available. See Hot Make Hot Break Technical Datasheet</i></p> <p><i>Single closure only (Hose End) available</i></p> <p><i>These figures are based on known and estimated data. Secc reserves the right to change specifications without notice.</i></p>			